ERS Implementation Report Card 4/21/2015

ERS Recommendation	PSE Role	City Role	Actions to Date
Current System Study (Ch. 2) Current System Assessment Recommendations (2.5) SUMMARY **Includes all preliminary recommendations in sections: PSE's Past and Present Reliability and Outage Performance (2.2) Review of PSE's System Design (2.3) Review of PSE Work Practices (2.4)**			
Current System 1: **Reliability Progress**	PSE has several programs underway to reduce the number and duration of outages, including: • Harden the Downtown system; • Underground cable life extension/ replacement; • Replace old switches & transformers; • Address underperforming circuits; • Install reclosers & SCADA; • Major technology upgrade for outage and distribution management	The City can and should proactively monitor progress and the extent of those programs focused on improved reliability of the City's power distribution system. This will require that the City add staff with power system expertise.	• PSE confirmed plan schedule & progress per ERS Report; • Bellevue SAIDI/SAIFI data shows better performance than for rest of PSE service area; • At this time city budget for PSE monitoring deployed for legal and technical outside experts, and a partial new FTE approved in the 2015-2016 budget for working with the WUTC—currently vacant.
Current System 2a: **Reliability Progress**	PSE has ongoing reliability initiatives and performs system-wide and targeted projects to improve system reliability	The City should track the reliability impacts experienced in the various neighborhoods. Since, in the future, PSE will be reporting additional reliability information including storm outages, the City can utilize this information to determine the effectiveness of the various reliability programs and projects, and to work with PSE in identifying circuits requiring attention. A fast track implementation of system improvements is an option for the City to explore with PSE, although accelerated investments might have a negative impact on the power rates. Track effectiveness; explore fast track implementation; meet w/PSE annually to understand projects & schedules proposed impacts on reliability	<u>2013 PSE Reliability Overview – Distribution system serving Bellevue</u> • 95 distribution circuits serving Bellevue in 2013 • 75 circuits (79%) had performance better than our system wide average • 20 circuits (21%) experienced no outages • 20 circuits (21%) had SAIDI or SAIFI figures exceeding system wide average figures. 16 of these circuits have been addressed or require no corrective action. The remaining 4 circuits have improvement actions identified. <u>2013 PSE Reliability Overview – Downtown Performance continues to be very good</u> • Clyde Hill transformer replaced • Center Substation Bank rebuilt & sealed • Center circuit 25 to be rebuilt in 2015 • 22 other reliability projects completed • 72 additional reliability projects planned

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Current System 2b: **Reliability Progress**	There are several programs underway to address outages and to reduce duration of outages.	It is recommended that the City meet with PSE on an annual basis to understand what projects are being identified and scheduled each year with the specific goal of improved reliability. The City can monitor PSE programs underway to address outages and to reduce duration of outages.	• The annual reliability workshop has been held 3 times; last was December, 2014; next meeting 2Q, 2015. PSE, City staff and stakeholders attend; specific tasks are directed and an annual reliability report is provided and reviewed.
Current System 3: **Undergrounding Opportunities** **for distribution lines**	Opportunities exist to advance undergrounding of lines by inter-utility cooperation	The City should investigate opportunities for additional undergrounding of distribution lines through coordination of multiple utility projects and evaluation of funding for conversion of overhead lines to underground cable circuits by forming local improvement districts. Further, the City needs to decide how to approach conversion of overhead distribution lines, used primarily in residential areas, to underground systems, which requires special funding mechanisms. Investigate advancement of undergrounding of distribution lines through LIDs, & other means; explore conversion of overhead distribution lines & funding mechanisms	• The City continues to implement Policy UT-39 by analyzing projects using tariff schedules 73, 74, and the CIP to advance undergrounding i.e. the City examined projects on West Lake Sammamish Parkway and 120th road projects but did not include undergrounding due to high cost; • The MOU stresses a continuing and active role of the City and PSE in seeking opportunities to leverage joint projects or other opportunities for undergrounding. Recognizing that the Comprehensive Plan already requires new distribution lines to be undergrounded through Policy UT-39, and that the Franchise Agreement allows the City to require undergrounding for relocations, the City proposed amended policies through the Comp Plan Update regarding funding alternatives and feasibility including encouraging LIDs by neighborhood request;
Current System 4: **Vegetation Management**	The visual review of overhead circuits indicates that there are many substations and lines located in heavily wooded areas and the only way to significantly improve reliability is to Perform more comprehensive tree trimming	The City should review its vegetation policies specifically in the area of substations to look at alternative vegetation approaches specifically where the risks for large scale disturbances related to vegetation management issues is high Review vegetation management policies, esp. near substations	• Current work plan item for DSD

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Current System 5: **Outage Management System**	In 2013, PSE began deploying several major system replacements, including customer information system, GIS and outage management. These deployments are part of PSE's multi-year modernization plan. These systems are integrated to provide accurate and timely information to customers in the event of disruptions – a strong interest of the City's for many years. A major benefit for emergency coordination and public outreach is the PSE Outage Map (on web and mobile app) released in 2014 that shows helpful information such as location on the map, start time, customers impacted, cause and status of response.	After deployment, selected City personnel involved in emergency response to learn the capabilities to assist in communication to the Bellevue community. Emergency response personnel learn capabilities	• Pre-event coordination model for forecasted storms developed by PSE and city OEM; • City public information officers and PSE developed communications structure integrated with City Incident Command structure; • Monthly OEM and PSE meetings with Homeland Security to advance incident preparedness • results reviewed in annual reliability workshop • PSE implemented three new integrated systems in April 2013 including their Customer Information System (CIM), Geospatial Information System (GIS) and Outage Management System (OMS). PSE notes that all have been successfully implemented although they are still learning how best to use full capabilities. • The City continues to monitor PSE's progress on its system modernization and smart grid efforts.
Current System 6: **Recommendations for PSE**	Several key components of high system reliability are within PSE's control.		
Current System 6a:	To achieve high reliability of the power supplied via the 115kV power transmission lines, system reinforced to handle all N-1 contingencies by adding 115kV transmission lines to the substations feeding the Downtown	Monitor; permit	• These System Plan planned facilities are included in the *updated* Utilities Element Figure UT-5a.
Current System 6b:	For substations which at present are fed from a single 115kV line, reinforce substations with a second 115kV line for N-1 contingency.	Monitor; permit	• Lake Hills—Phantom Lake 115kV: New transmission line between existing substations to provide redundant (looped) transmission connection for three substations – permitting in 2014/2015 with planned construction in 2016. City Council decision 4/20/2015.
Current System 6c:	Continue to reinforce distribution system to meet N-1 criteria for the entire city	Monitor; permit	• System Plan implementation, monitored through annual meetings, Comp Plan updates, and permitting

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Current System 6d:	Continue implementation of system programs: • hardening, distribution automation, upgrades of OMS & DMS; • preventive replacement of low reliability transformer	Monitor; permit	• Actions taken and documented through the annual reliability workshop. See Current System 2b.
Future System Study (Ch. 3) Future System Assessment Recommendations (3.4) SUMMARY **Includes all preliminary recommendations in these sections: Growth Scenario Mid-term (3.2) Growth Scenario Long-Term (3.3) including Table 6 Major Project Road Map**			
Future System 1: **Energy Efficiency Programs**	PSE's long-range plans indicate significant reliance on energy efficiency for the management of the peak electric power demand	The City should lead the electric energy efficiency effort to assist PSE in reaching its peak electric power demand goals to avoid using or building new peak electric power plants. Electric energy efficiency programs require active outreach to customers and citizens to support various outreach initiatives. This is a longer-term issue that will be included in future IRPs. The City should remain active in the IRP process and should begin to understand potential long-term impacts of this strategy.	• Bellevue selected to advance to the semifinal round of the Georgetown University Energy Prize • Solarize Bellevue successfully underway • Adopted streamlined process for permitting small-scale solar • Yearly update of city greenhouse gas inventory • Leveraged $1.2M Energy Efficiency and Conservation block grant for natural resource conservation projects • Hired resource conservation manager to reduce municipal water and electric usage • Created the Eastside Sustainable Business Alliance • The City owns and operates 22 electric vehicle charging stations • Expanded the Carbon Yeti Campaign • Only local jurisdiction with staff representation on PSE IRP advisory group process—participated in last three IRPs • City energy efficiency measures that have been used at recent pump station projects. The 2015-2021 CIP program includes rehabilitation of 8 water and 12 wastewater pump stations. At each of these projects the city will continue to perform energy analyses to reduce energy consumption and impacts to the grid. Through both capital and operational savings at *buildings and pump stations*, the city has reduced peak monthly demand from about 4,386 kW in 2011 to 4,008 kW in 2014 and reduced kWh usage from 16.7 million kWh in 2011 to 15.4 million kWh in 2014.

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Future System 1: **Energy Efficiency Programs (cont'd)**			• Replacing traffic signal and street lighting with LED. LED traffic signal conversion has saved 73,000 kWh/year since 2010. LED streetlight conversions have saved 38,972 kWh since 2011 (cumulative) and in 2015 will save 1.19 million kWh/year. • The city is also working much more closely with PSE on implementing commercial energy efficiency programs through the forthcoming *Bellevue Urban Smart* program – a downtown building district for high efficiency commercial buildings. While the focus of this program is on efficiency through behavior change by occupants in buildings, there is a strong component of facility infrastructure updates including smart metering technologies.
Future System 2: **Smart Grid Initiatives**	PSE is initiating Smart Grid programs to comply with WUTC requirements including: • upgrade technologies; • upgrade SCADA in transmission substations; • Distribution SCADA on feeder breakers; • extend fiber optic cable through T&D systems	The City should review the overall PSE plan and determine their level of support for the various customer initiatives that would be appropriate for the City to provide. The types of initiatives to be considered relate to customer energy management, demand response, and home automation.	• Actions taken and documented through the annual reliability workshop; in 2014 workshop for example, Utilities and PSE staff identified synergistic opportunities to apply smart meter technologies in their infrastructure operations (not customer meters) • These strategies are separately carried out amidst a collaborative work and reporting strategy. A Smart Grid supporting interactivity between data and users is a key component. The City through its economic development Vision is also pursuing a Smart City strategy to include high speed data options for businesses and residents and in which a smart grid can play a key role. The city capital budget for 2015-2016 includes initial funding for broadband telecommunications rollouts relying on smart grid technology. • PSE's smart grid efforts are also being phased in. Remote data acquisition devices and SCADA (supervisory control and data acquisition) switches are being deployed to gather real-time information and monitoring for more efficient operations and response. The City's Smart City effort provides an opportunity to be supportive of PSE's smart grid effort while finding potential alignment on projects that build on the collaboration that exists for energy conservation, ROW utility coordination, LED street lights and fiber network pole attachments.

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Future System 2: **Smart Grid Initiatives (cont'd)**			PSE notes its Smart Grid Initiatives including Automation: • FLISR (Fault Location, Isolation, Service Restoration) Worked with a consultant to developed requirements/architecture for FLISR tools; evaluating vendors/products in 2014. • AMI (Advanced Metering Infrastructure) 16-meter pilot project in CBD implemented in September 2013; results show improvement in receipt of meter reads. • Remote Data Acquisition Devices (RDADs) 60 in place; next generation devices expected in 2014; working to integrate RDADs with EMS (Energy Management System). Distribution SCADA Switchgear – 4 installed and connected; 8 sites constructed in 2013 but not all had full remote functionality; 12 planned for installation in 2014 together with integration of all switches into EMS; plan presently calls for retrofitting a total of 66 switches to be SCADA equipped in the CBD area.
Future System 3: **Major Project Planning**	PSE maintains a plan for expansion of the system in Bellevue to support growth of the City and the region. However, as lead time to permit larger projects (required to add capacity or reinforce the City infrastructure) has grown, it requires that the City understand the projects from a more detailed perspective.	The City should engage PSE in an annual planning workshop around future projects with the intent of understanding the requirements from a City perspective. The Comprehensive Plan includes an electric system plan that can serve as the basis; the workshop should focus on: • Current growth projections and power use in Bellevue • Review of current plan applicability (UT-5a) • Update of the current plan • Develop actions for capacity projects required to initiate siting and permitting activities	• The annual planning workshop has been held twice; last was 2013; next meeting 2Q 2015. PSE and City staff attend and exchange recommended information; specific tasks are directed. • These System Plan planned facilities are included in the updated Utilities Element Figure UT-5a. <u>Transmission System Improvements Recently Completed:</u> • Ardmore Substation: New distribution substation with looped (redundant) 115kV transmission line (2013) • Lake Hills Tap 115kV: Extension to Ardmore Substation with automated transmission switching (2014) <u>In Progress:</u> • Lake Hills—Phantom Lake 115kV: New transmission line between existing substations to provide redundant (looped) transmission connection for three substations – permitting in 2014/2015 with planned construction in 2016.

			• Energize Eastside 230kV: New 230kV transmission line(s) and new transmission station in Bellevue to provide local and regional increased system capacity and reliability – permitting in 2015/2016 with planned construction in 2017.
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Future System 3: **Major Projects Update Downtown Substations**	Add transformer banks: • Growth to 125 MVA Initiate: 2012 Need: 2016 • Growth to 150 MVA Initiate: 2016 Need: 2020 • Growth to 175 MVA Initiate: 2022 Need: 2026 • Growth to 200 MVA Initiate: 2026 Need: Unknown	Monitor; permit	• Will get update at next annual planning workshop 2Q, 2015
Future System 3: **Major Projects Update BelRed**	Add transformer banks: • Growth to 20 MVA Initiate: 2012 Need: 2018 • Growth to 40 MVA Initiate: 2022 Need: 2026	Monitor; permit	• Will get update at next annual planning workshop 2Q, 2015 <u>On the Near Horizon:</u> • Vernell Substation – New 115kV transmission switching station with local distribution substation for improved transmission system flexibility/reliability and new distribution system capacity to support Spring District development in 2020.
Future System 3: **Major Projects Update Somerset/Eastgate**	Add transformer bank: • Growth/reliability Initiate: 2012 Need: 2018	Monitor; permit	• Will get update at next annual planning workshop 2Q, 2015
Future System 3: **Major Projects Update 115 kV System**	Upgrade 115kV line to 230kV. This is EE. • 50 MVA Need Downtown/Regional Growth Initiate: 2012 Need: 2018-2022 Add 3rd transmission feed from the north • Additional 50 MVA Downtown Initiate: 2015 Need: 2020-2024	Monitor; permit	Energize Eastside 230kV: New 230kV transmission line(s) and new transmission station in Bellevue to provide local and regional increased system capacity and reliability – permitting in 2015/2016 with planned construction in 2017. • The City participated in PSE's Energize Eastside community outreach program mandated by LUC 20.20.255 • The City initiated an Independent Technical Analysis for need • PSE applied for an EIS (8/2014) which is underway • The City will permit the project through the conditional use permit as an essential public facility

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Future System 4: **Long Range Planning**	Both Bellevue and PSE work with various developers and companies to identify new potential facilities in Bellevue. There is an opportunity to share and communicate the results of these planning activities.	The City should engage with PSE in an annual planning workshop around future projects with the intent of synchronizing their growth projections for the City by exchanging information on expected projects, expected timing of projects, and coordination activities required by PSE and the City to address these projects.	• The annual planning workshop has been held twice; last was 2013; next meeting 2Q, 2015. PSE and City staff attend and exchange recommended information; specific tasks are directed. The exchange is meant to be longer-term [than the reliability workshops] planning and well in advance of any specific permitting or development activities.
Role of the City of Bellevue (Ch. 4) Future System Assessment Recommendations (4.3) SUMMARY **Includes all preliminary recommendations in these sections: Enhanced Role of the City (4.2)**			
	~~PSE~~ WUTC Role		
Role of the City 1: **WUTC Interaction**	From a WUTC perspective relative to electric power, cities are considered as any member of the public. Bellevue's primary interaction with WUTC is one of being an active participant relative to changes in laws and tariffs that may affect electric system reliability in Washington.	Bellevue's ability to be a knowledgeable stakeholder will require assignment of an engineer knowledgeable in the electric power system to foster the City interaction with stakeholders.	• 2015-2016 budget considered but did not include engineer. At this time city budget for PSE monitoring is deployed for outside legal, tactical and technical experts.
Role of the City 1a: **WUTC Interaction**		Bellevue's involvement with the WUTC may be one of informing lawmakers and commissioners of matters that the City believes affect the City's electric reliability or general electric service. For issues that are of interest to the City: • A designated individual can be assigned to electric system matters. The individual should remain informed of electric system matters related to WUTC • White papers can be developed for submittal to WUTC. This provides a means to provide feedback to WUTC without direct response to hearings. Potential policy matters can be advanced this way.	• A new FTE is approved in the 2015-2016 Intergovernmental Relations budget including a portion of position time as the designated individual assigned to electric system matters. The position is expected to be filled 2Q 2015. • The City lobbyist monitors electric and energy matters when the Legislature is in session, with support from Intergovernmental Relations and PCD.

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Role of the City 1b: **WUTC Interaction**		Bellevue has the opportunity to comment or participate in matters directly affecting PSE and their interactions with WUTC: • As programs and rate discussions take place between WUTC and PSE, the City has the opportunity to advocate for positions that support City goals; • Comment and participate in various programs submitted to WUTC by PSE; where PSE is seeking advisory input from stakeholders including the IRP, Smart Grid Plan, and reliability programs.	• Only local jurisdiction with staff representation on PSE IRP advisory group process—participated in last three IRPs • Actions taken and documented through the annual reliability workshop; in 2014 workshop for example, Utilities and PSE staff identified synergistic opportunities to apply smart meter technologies in their infrastructure operations (not customer meters) • The annual reliability workshop has been held 3 times; last was December, 2014; next meeting 2Q, 2015. PSE, City staff and stakeholders attend; specific tasks are directed and an annual reliability report is provided and reviewed.
Role of the City 2: **Major Project Planning**	Conduct major discussions well in advance of permit applications to assure sufficient lead time to permit larger projects required to add capacity or reinforce the City infrastructure Engage in annual planning workshop for future capacity/expansion projects	The City should engage with PSE in an annual planning workshop around future projects with the intent of a focus on: • current growth projections & power use; • current and updated Plan applicability; • Developing actions for capacity projects to initiate within next 2 years	• An outcome of the annual planning workshop has been information exchanged around advance project initiation. **Please refer to the Future System 3: Major Projects Update section.**
Role of the City 3: **Long-Range Planning**	Both Bellevue and PSE work with various developers and companies to identify new potential facilities in Bellevue. There is an opportunity to share and communicate the results of these planning activities.	The City should engage with PSE in an annual planning workshop around future projects with the intent of synchronizing their growth projections for the City by exchanging information on expected projects, expected timing of projects, and coordination activities required by PSE and the City to address these projects.	• The annual planning workshop has been held twice; last was 2013; next meeting 2Q, 2015. PSE and City staff attend and exchange recommended information; specific tasks are directed. The exchange is meant to be longer-term [than the reliability workshops] planning and well in advance of any specific permitting or development activities.
Role of the City 4a: **Multi-Utility Planning**	There are opportunities for multiple utilities to take advantage of projects being performed by one of the utilities. This action also represents a potential means to advance undergrounding of circuits if PSE can take advantage of trenching to allow conduits for future use.	City engage its utility partners to identify new projects to attempt to maximize projects in the ROW.	• The City's Right-of-Way division hosts monthly utility coordination meetings to which all parties with Bellevue Franchise Agreements and Bellevue ROW Agreements are invited. PSE participates as a matter of course in these meetings.

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Role of the City 4b: **Multi-Utility Planning**	There are opportunities for multiple utilities to take advantage of projects being performed by one of the utilities. This action also represents a potential means to advance undergrounding of circuits if PSE can take advantage of trenching to allow conduits for future use.	The City can take advantage of projects that require trenching to place conduit for future use of potential undergrounding. The existence of conduit may allow for more economic alternatives to undergrounding in the future. Where trenching occurs, city coordinates the placement of conduit,	Transportation capital projects work with all power, gas and telecommunications utilities during the design process to provide opportunities for coordinated construction of new or relocated infrastructure. It is most cost-effective when undergrounding utilities to have them utilize a common trench line for the backbone of their systems. Recent and current projects where the city has initiated the planning and installation of underground systems include: • PW-R-160 NE 4th Street Extension – 116th to 120th Avenues NE • PW-R-164 120th Avenue NE Stage 2 – NE 8th Street to NE 12th • PW-R-168 120th Avenue NE Stage 3 NE 12th to NE 16th Streets • PW-R-166 124th Avenue NE – NE Spring Blvd to NE 18th Street and • The recently completed 120th Avenue NE Stage 1 project.
Role of the City 5: **Emergency Response Capability**	Develop a more formal process related to emergency response & support activities which may include locating damage, coordination of access to areas of damage, access to PSE outage information, coordination of recovery plans, emergency support to people in need. During storm events, dedicated PSE staff are assigned to the local Redmond storm base. PSE staff are directly linked to dedicated city personnel staffing the EOC.	Develop a more formal process related to emergency response & support activities; agreement or procedure for communication and coordination during large scale events	City emergency operations staff report that they and PSE staff have developed a model of pre-event coordination for forecasted storms that may affect the power systems in Bellevue. Staff coordinate on-call contacts, contact numbers and work hours in advance so that Bellevue-specific contacts can be made and information exchanged in the shortest time possible. Staff are continuing to explore the possibility of obtaining site-specific (address) outage information, possibly with shared technology. During non-storm event outages, PSE keeps city staff in Transportation, Utilities and PCD informed as to their status. When PSE has ongoing actions taking place they notify relevant city staff. City emergency management staff are formalizing communications emergency protocols between organizations MOU addresses the goal of optimizing City/PSE relationship on coordination and communication: • The Office of Emergency Management participated in several discussions last fall with PSE regarding their Outage Management System.

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			• http://pse.com/accountsandservices/ServiceAlert/Pages/Outage-Map.aspx - The previous link is to the improved tool that PSE is leveraging to share power outage information with public. The Office of Emergency Management used this tool twice during the 2014-2015 Winter Storm Season to support incident operations in the City. While the tool has been greatly enhanced and has allowed for further community communications and emergency response more improvements have been suggested to PSE Emergency Management representatives. One capability suggested included the ability to further sort and filter through large amounts of data potentially related to power outage in and near the City. • City Public Information Officers visited PSE in December 2014 to better understand the role and the communication structure between PSE and City Emergency Operations Center and Incident Command Structure during emergency incidents. • The Office of Emergency Management has been meeting monthly with PSE Emergency Management representatives through the King County Zone 1 Emergency Management Group and the Emergency Management Advisory Committee (EMAC)/ Region 6 Homeland Security Council. These are important opportunities to leverage the knowledge of many disciplines and organizations across King County in relation to how PSE prepares for incidents that may affect their systems that will impact the City of Bellevue.
Measurement and Monitoring (Ch. 5)) SUMMARY **Includes all preliminary recommendations in these sections: Metrics (5.1) and Stakeholder Communication (5.2)**			
Measure/ Monitoring 1: **Metrics:** • **Performance-based** • **Outage-based** • **Design-based** • **Growth-based**	PSE has ongoing reliability initiatives and performs system-wide and targeted projects to improve system reliability.	Table 7 Proposed Metrics: • Bellevue Circuits of Concern • Downtown Reliability • Reliability Project Effectiveness • System Redundancy • Automation Utilization • Power Demand	• The annual reliability workshop has been held 3 times; last was December, 2014; next meeting 2Q, 2015. These metrics are reported by PSE in its annual reliability report (required by the existing MOU) and include SAIFI/SAIDI performance; • Bellevue SAIDI/SAIFI data shows better performance than for rest of PSE service area.

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Measurement and Monitoring 2: **Stakeholder Communication**		The City has many avenues available for communicating with its various constituents regarding the electric reliability initiative. A major concern of the various stakeholders is the timeliness of information on matters that affect residents and businesses in Bellevue. Information can be provided for the following: • Overall electrical performance through the PSE reliability report and various statistical analyses that can be performed by the City • Early notification of major growth and projects affecting the City electric system based on planning meetings with PSE • Information on OMS and emergency response in normal and storm conditions • Information relative to identifying critical facilities so that PSE is aware of these prior to emergency events The City has the opportunity to develop a communications plan around electric system performance through the use and publishing of the metrics. The City may choose to combine these with other forms of communication to provide a standard form of update and status. The City website provides a vehicle to communicate to its constituents as an informed stakeholder.	• City personnel meet and coordinate with PSE personnel to understand and support PSE's implementation capabilities of their computerized outage management system. This was combined in the MOU with Item 6 into one provision addressing Coordination and Communication. • Improved proactive communication has occurred between the city's operational departments, its Emergency Operations Center, and PSE around coordination emergency response protocols and supporting PSE's community communications efforts.